

FIG. 1

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FIG. 2

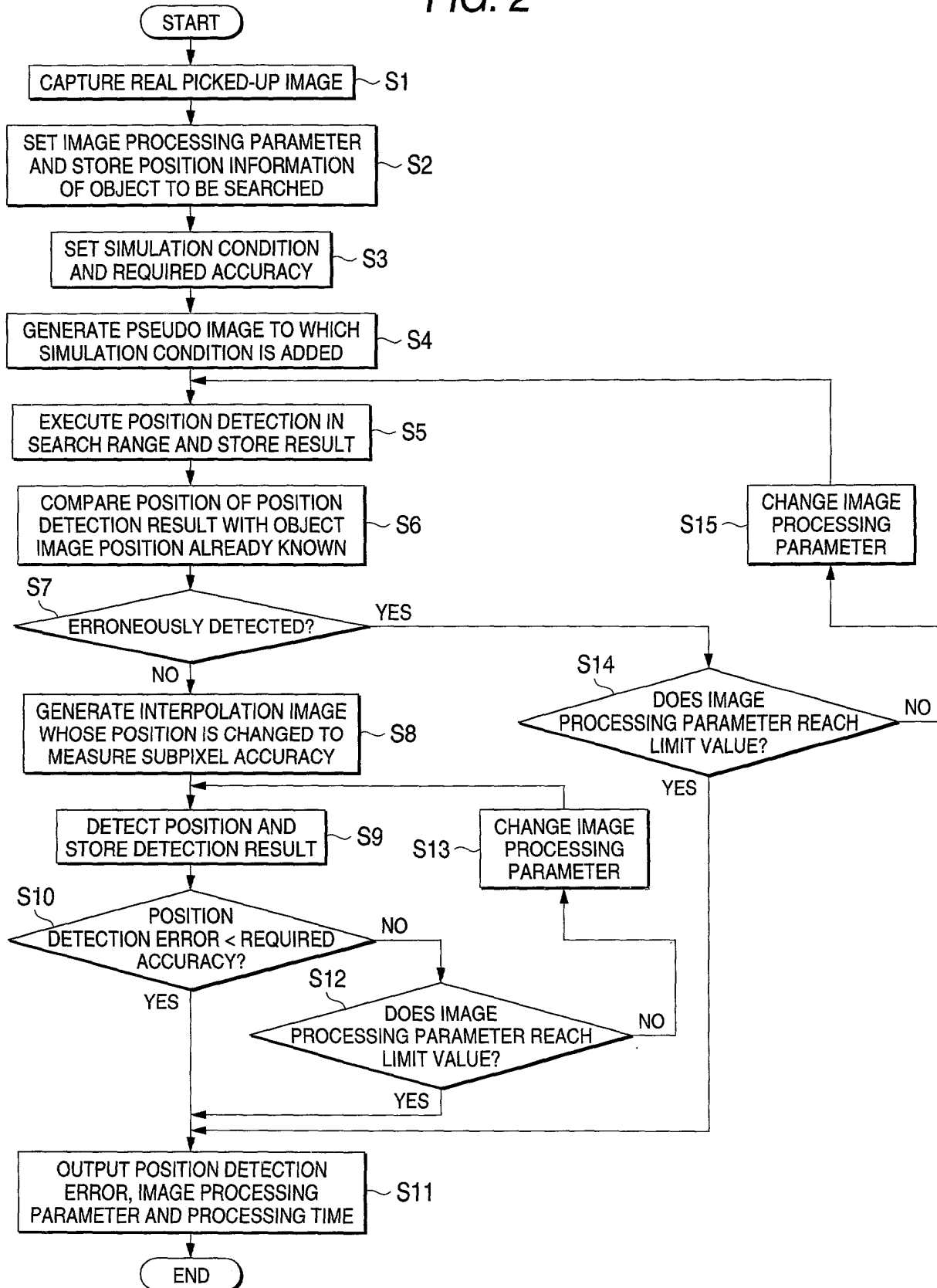


FIG. 3

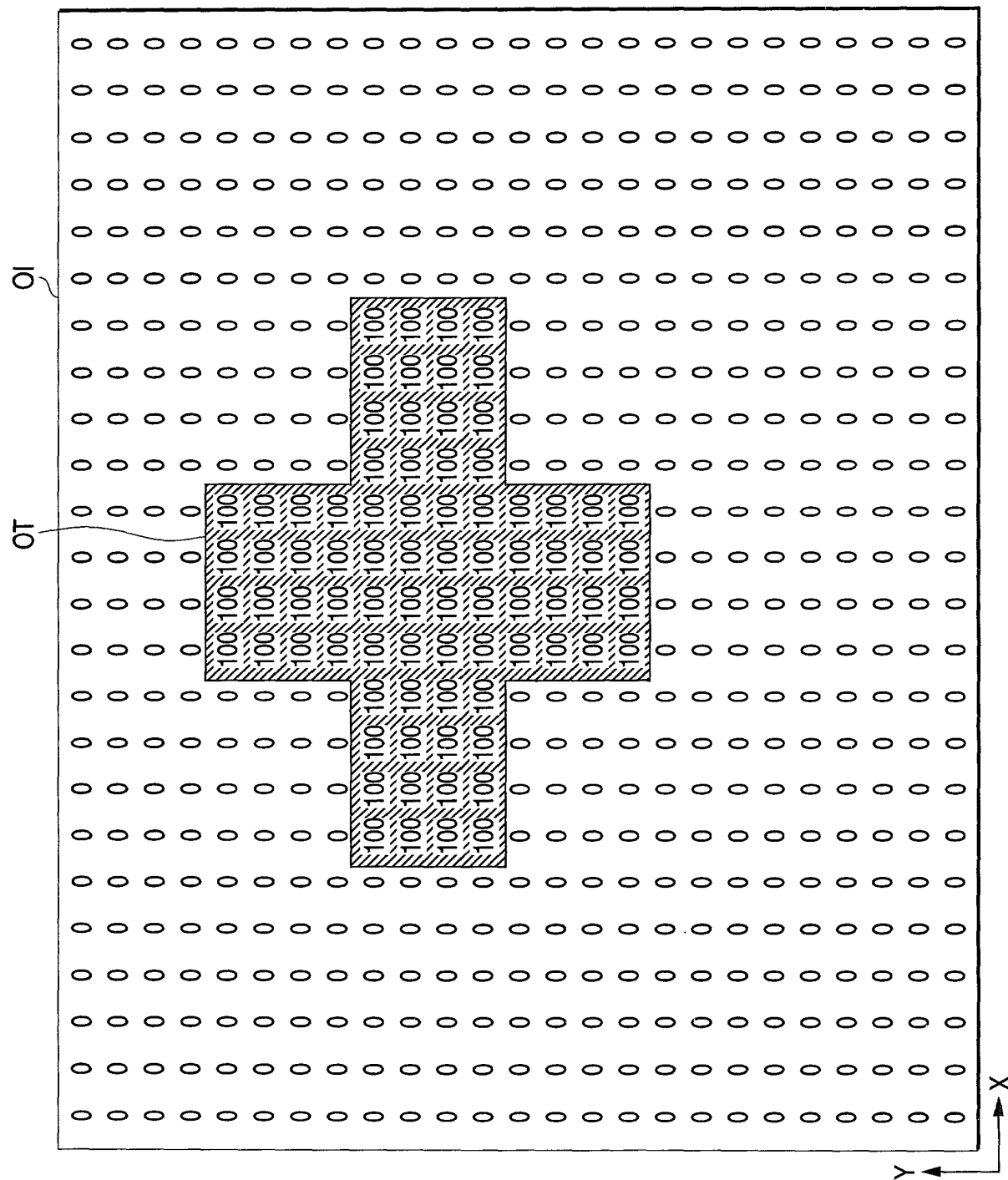


FIG. 4

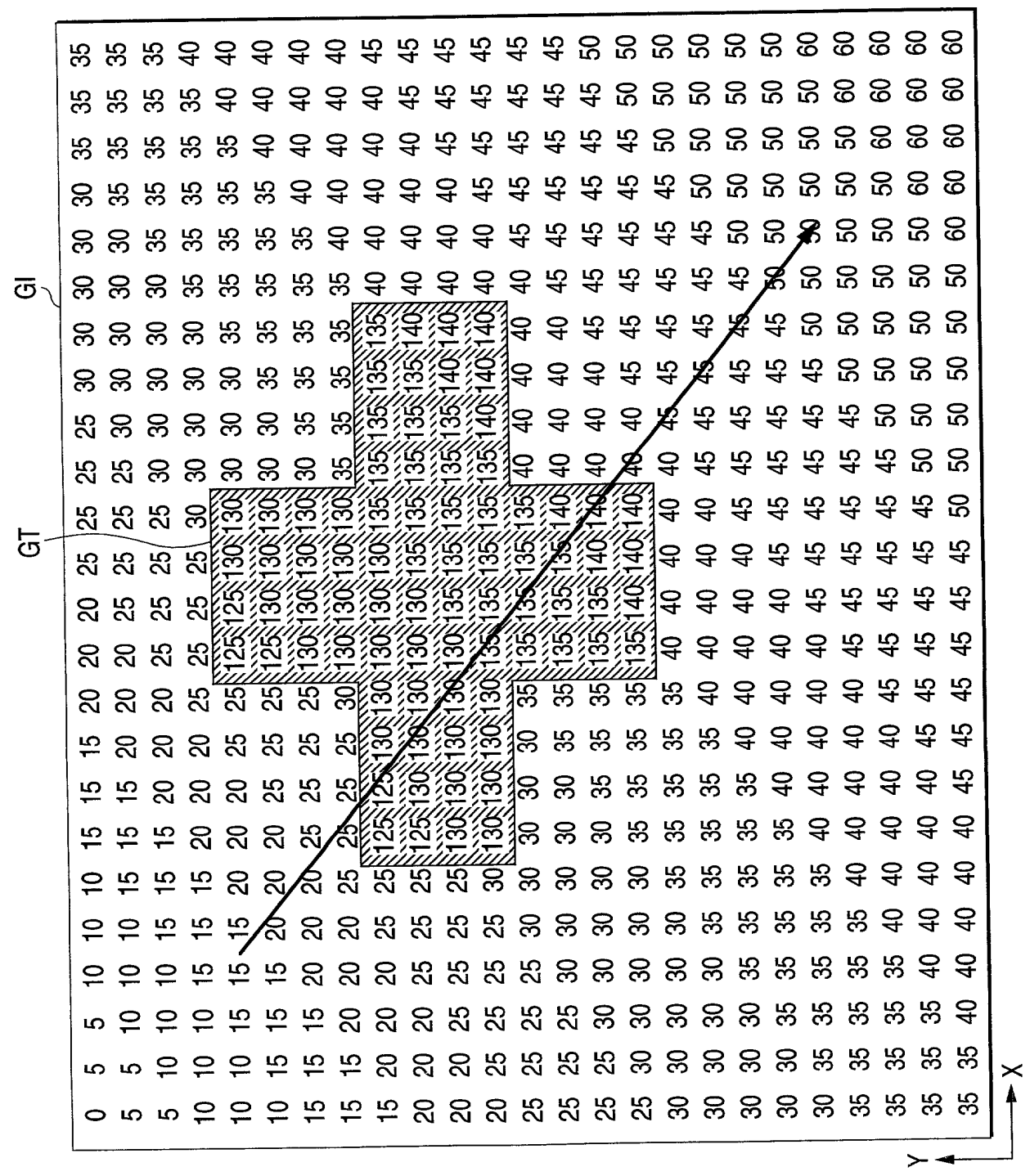


FIG. 5

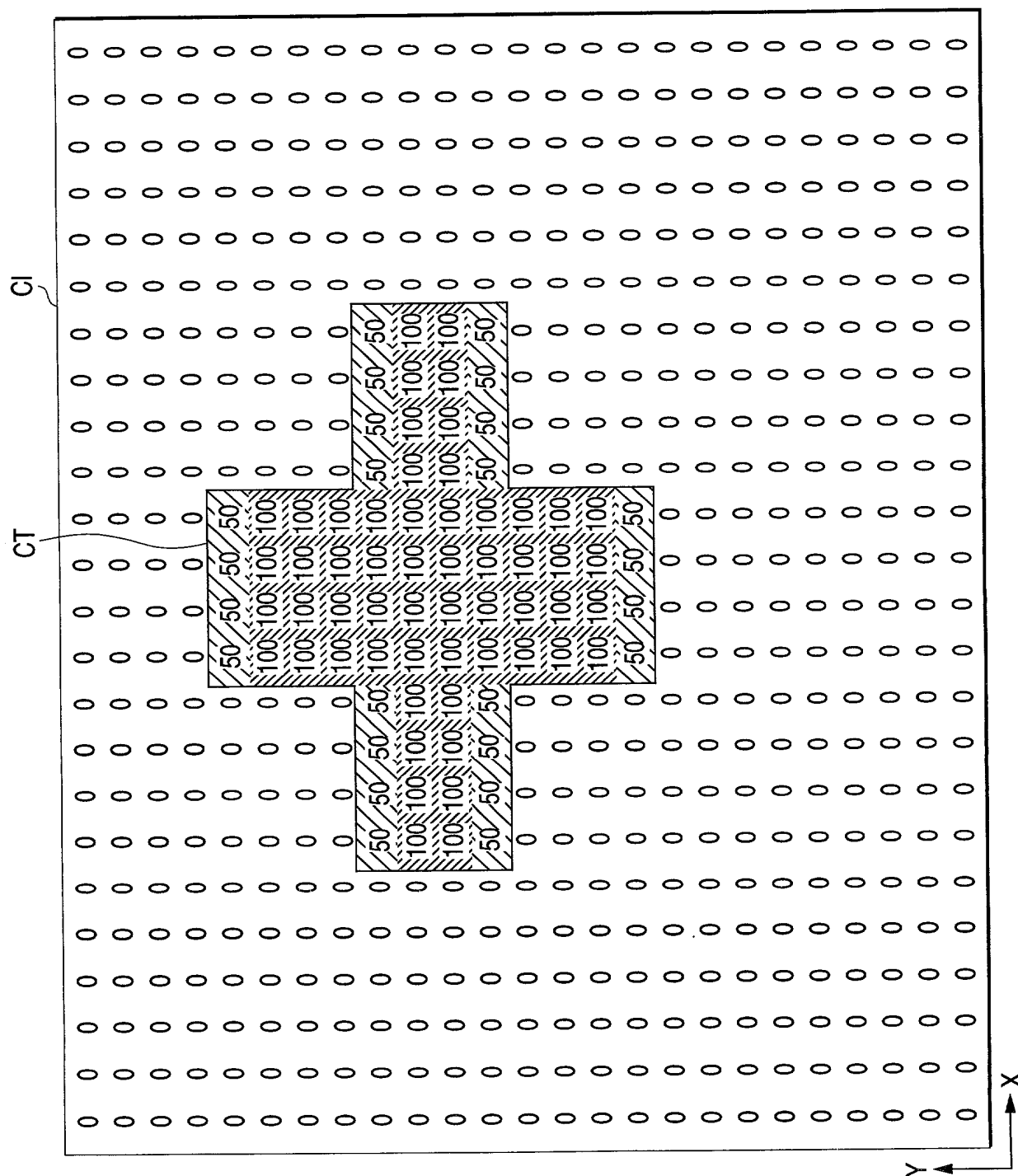
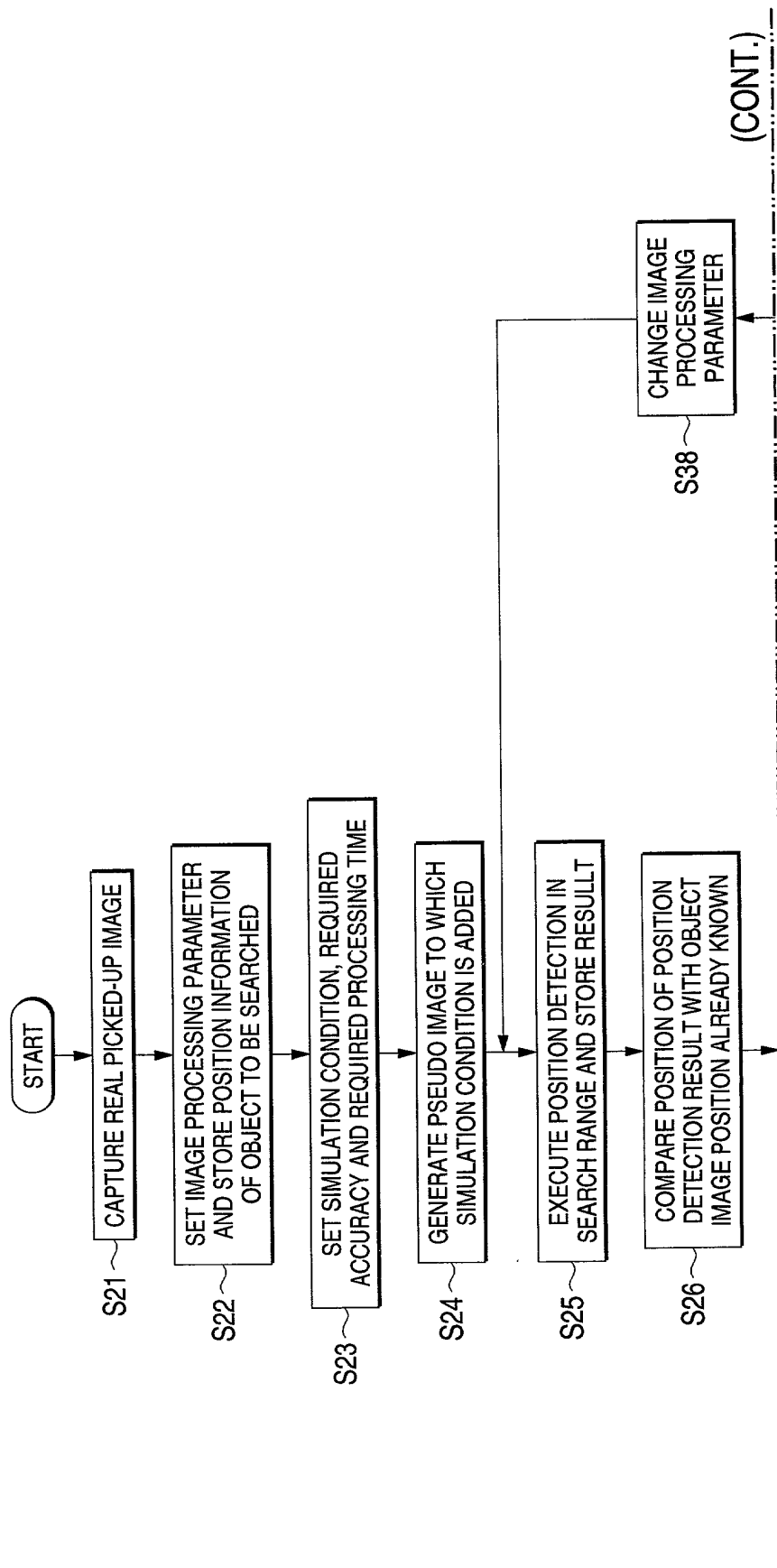
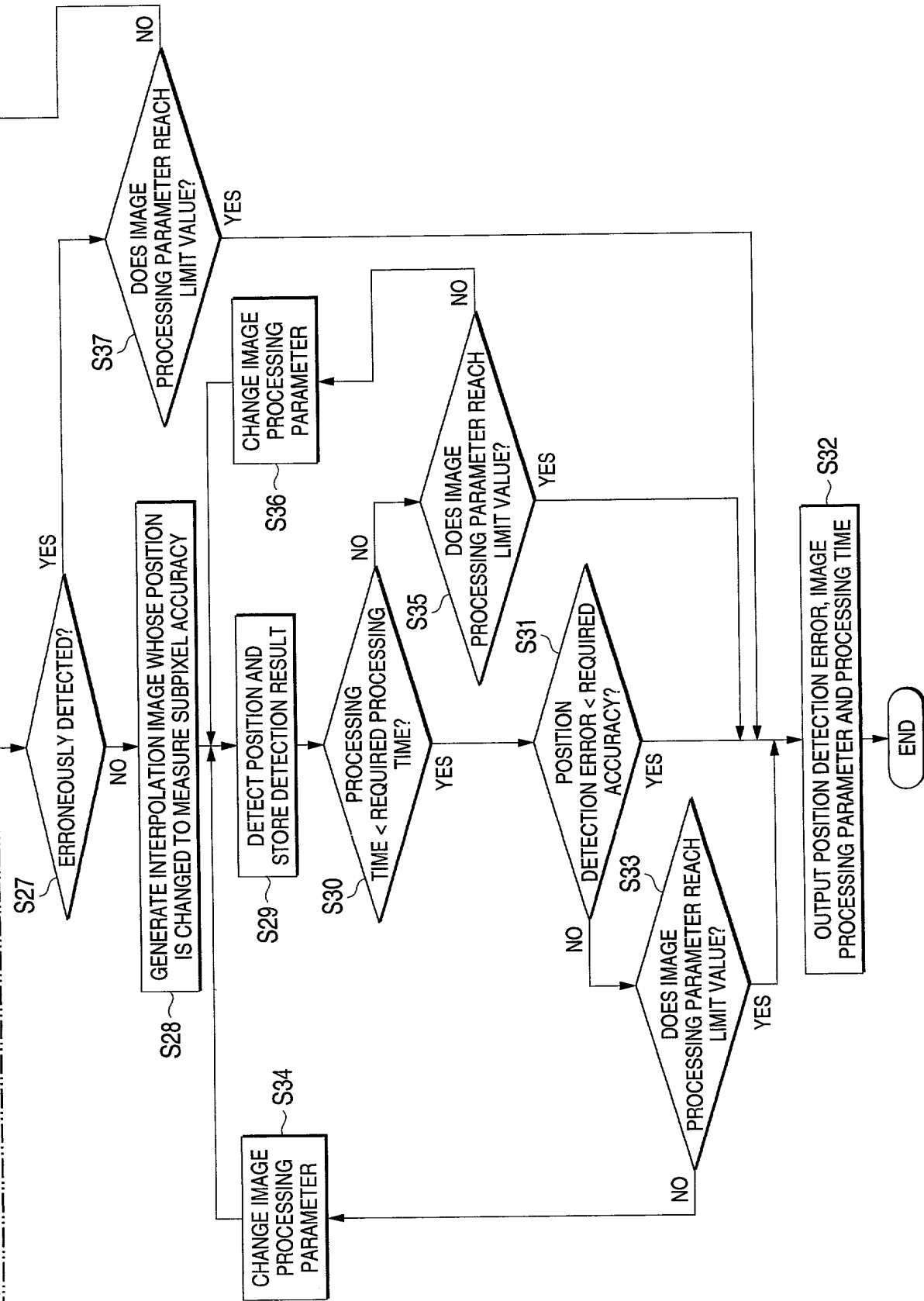


FIG. 5

FIG. 6



(FIG. 6 CONTINUED)



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FIG. 7

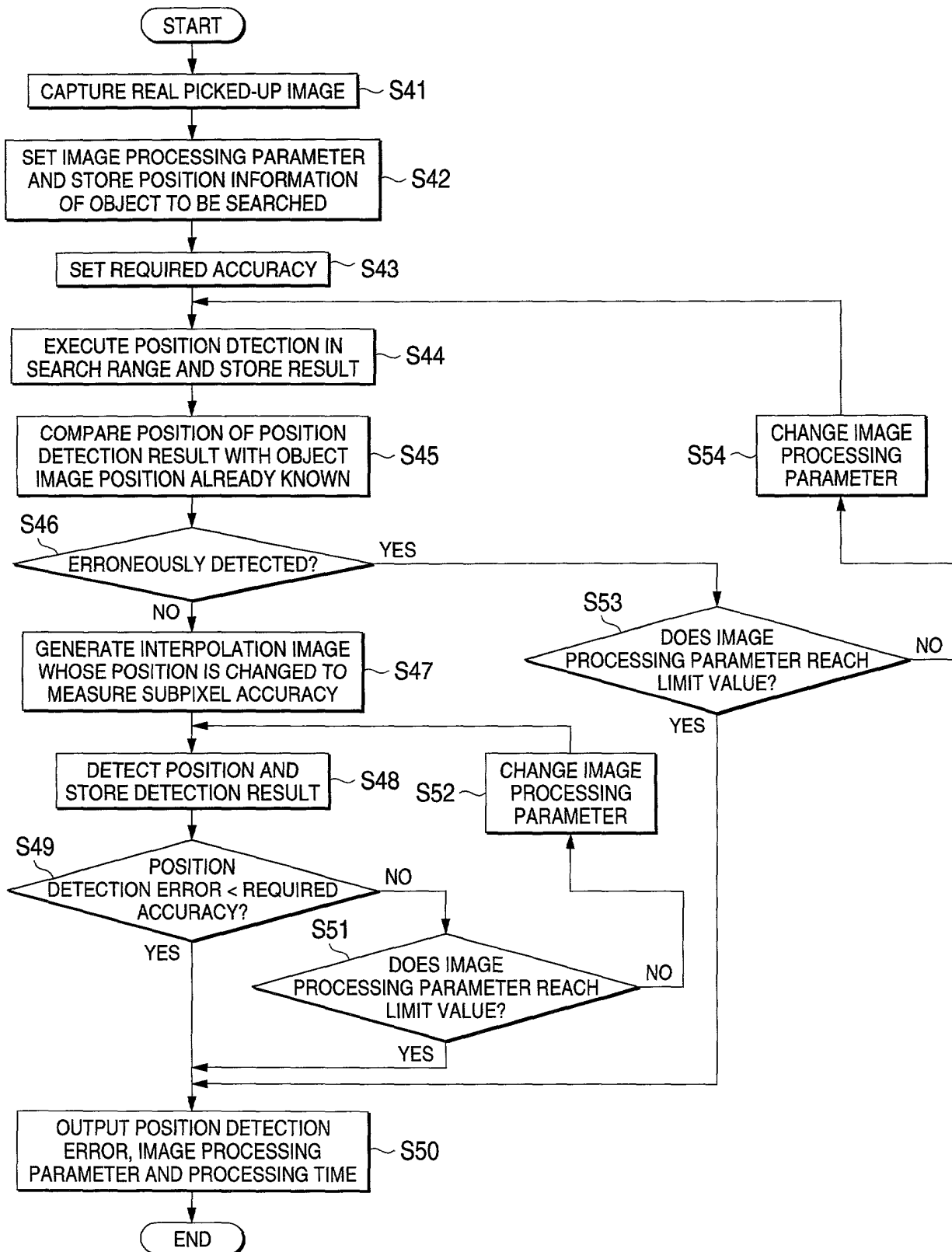
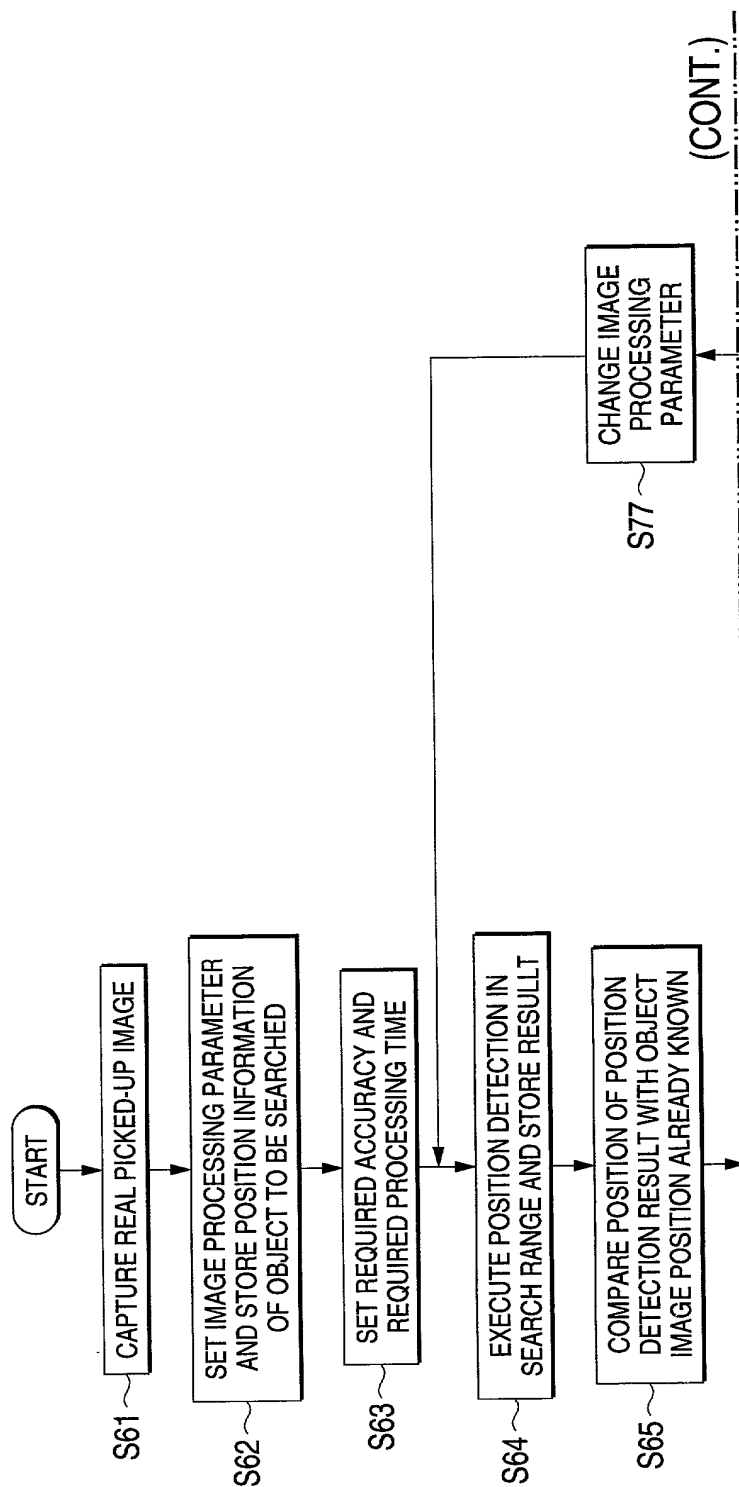


FIG. 8



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graph TD
    S66{ERRONEOUSLY DETECTED?} -- YES --> S67[GENERATE INTERPOLATION IMAGE WHOSE POSITION IS CHANGED TO MEASURE SUBPIXEL ACCURACY]
    S66 -- NO --> S68[DETECT POSITION AND STORE DETECTION RESULT]
    S67 --> S68
    S68 --> S69{PROCESSING TIME < REQUIRED PROCESSING TIME?}
    S69 -- YES --> S70{POSITION DETECTION ERROR < REQUIRED ACCURACY?}
    S69 -- NO --> S73{DOES IMAGE PROCESSING PARAMETER REACH LIMIT VALUE?}
    S70 -- YES --> S71[OUTPUT POSITION DETECTION ERROR, IMAGE PROCESSING PARAMETER AND PROCESSING TIME]
    S70 -- NO --> S72{DOES IMAGE PROCESSING PARAMETER REACH LIMIT VALUE?}
    S72 -- YES --> S71
    S72 -- NO --> S74[CHANGE IMAGE PROCESSING PARAMETER]
    S73 -- YES --> S75[CHANGE IMAGE PROCESSING PARAMETER]
    S73 -- NO --> S76{DOES IMAGE PROCESSING PARAMETER REACH LIMIT VALUE?}
    S76 -- YES --> S71
    S76 -- NO --> S66
    S74 --> S68
    S75 --> S68
    S71 --> END([END])
  
```